Installation Instructions
IFPS13 (Full Install)
February 21, 2003

Installation Instructions for IFPS13

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PART 0: Prerequisite

Part 0 represents the portion of the IFPS13 install that can be done/verified prior to actually starting the install. Please read over this section and complete the items listed below. You should not continue with the IFPS13 install until all of these items have been satisfied.

If you are a RAP site, please follow the directions listed under the "RAP Sites (ONLY)" tag. If you are not a RAP site, please follow the instructions under these tags "Non-RAP WFOs". All of the WFOs need to follow the directions under the "All WFOs" tag.

1. **AWIPS Version Installed**
   a. All WFOs –
      i. AWIPS **R5.2.2.x or OB1 and IFPS12.x** MUST be installed.
         (1) To check AWIPS release, type the following command:
         ```
         > cat  /awips/Release_ID
         ```
         If the result does not match at least 5.2.2, please install the R5.2.2 before continuing with the IFPS13 install.
         (2) To check IFPS release, type the following commands:
         ```
         >dbaccess ifps_ccc
               where ccc is the 3-letter site identification
         >Select [Q]uery Language
         >Select [N]ew
         >Type SQL
               SELECT * FROM rap_install_log;
         >Select <esc>
         >Select [R]un
         >Select [E]xit, twice
         >exit
         ```
         If the result does not match at least IFPS12.0, please install IFPS12.0, before continuing with the IFPS13 install.
2. **Backup Copies of Important IFPS Files**
   a. All WFOs –
      i. See Attachment 1 for the list of data files, scripts, and database tables that are replaced or merged during the IFPS13 upgrade.
      ii. Key files that MDL suggests should be backed up prior to starting the IFPS13 upgrade:
         (1) Data files and Scripts
            (a) `/awips/adapt/ifps/Xdefaults/Igr_ccc`
            (b) `/awips/adapt/ifps/localbin/ifps-ccc.env`
            (c) `/awips/adapt/ifps/data/mask.00`
            (d) `/awips/adapt/ifps/data/mask.12`
            (e) `/awips/adapt/ifps/data/template_fwm.ccc`
         (2) ifps_ccc Database Tables
            (a) `None`

PART 1: Pre-install Preparations

Part 1 represents the steps necessary to prepare the system for the IFPS13 install. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that the Part 1 and Part 2 will take approximately two hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS13 upgrade.

If you are a RAP site, please follow the directions listed under the "RAP Sites (ONLY)" tag. If you are not a RAP site, please follow the instructions under these tags "Non-RAP WFOs". All of the WFOs need to follow the directions under the "All WFOs" tag.

1. **Look for Addenda to the IFPS13 Install Instructions**
   a. All WFOs –
      i. ***Before starting with the IFPS13 install, please review any updated Install Instructions and/or Lessons Learned at the following URL:***

      http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds

      Once there, click on "13" in the IFPS13 row of the matrix.

      The IFPS13 web page includes a number of other hypertext links including a link to the IFPS13 User's Guide.

2. **IFPS13 Install Space**
   a. The chart in Attachment 2 indicates the amount of space needed in each of the partitions for the specified host. If there is not enough space available, the install will stop in order to allow the IFPS-FP to free up space in the specified partition. The install can then be re-run. To save time during the installation, this chart may be used as a pre-install check of available space. All sizes are in kb.

PART 2: Install IFPS13

Part 2 represents the steps necessary to install IFPS13. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that this part will take approximately two hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS13 install.

If you are a RAP site, please follow the directions listed under the "RAP Sites (ONLY)" tag. If you are not a RAP site, please follow the instructions under these tags "Non-RAP WFOs". All of the WFOs need to follow the directions under the "All WFOs" tag.

1. Notify the NCF

a. All WFOs –

i. Before starting the IFPS13 installation, please open a trouble ticket with the NCF. The NCF will, in turn, alert MDL that you are about to begin your IFPS installation. Should you require any assistance with your installation, a trouble ticket will already be opened.

b. RAP Sites (Only) -

i. ***If you have any problems with your IFPS installation or have questions about anything related to the installation process, then please call the Customer Support Team (CST) for assistance. CST telephone contact information is available on the last page of this document.***

c. Non-RAP WFOs -

i. ***If you have any problems with your IFPS installation or have questions about anything related to the installation process during normal business hours, then please call the Site Support Team (SST) at (301) 713 1724 x 171.***

d. All WFOs -

ii. If you encounter any operational problems with IFPS, after successfully installing, then, as usual, contact the NCF.

2. Ensure System is running

a. All WFOs –

i. Log into a workstation as root, then rlogin to the ds

1. `>rlogin ds1`

ii. Use the following command to verify that Informix is up and running correctly.

`>onstat -g dri`

1. If you get a response this means that the Informix database is running.

2. Using the output from the command above, verify that under the ***Data Replication*** heading, the type is primary and the state is on as indicated below.

Informix dynamic server 7.31.UC2 – On-Line (Prim)–up 012319 – 168592 kbytes

Data Replication:

Type	***state***	***paired serve***	***const dr ckpt***	***id/pg***
primary	***on***	***ONLINE_REP***	***126615/14***	***28***

DR interval 30
DR interval 30
DR interval 30
DR auto 0
DRLOST FOUND /opt/informix/etc/.dr.lostfound

NOTE: If (1) or (2) above are not true, you have a problem and need to start the Informix database before you proceed. Call the Site Support Team (SST) for assistance.

ii. All WFOs –

i. Verify that the DS and AS are not currently failed over. You will not be able to complete this install if either the DS or the AS is failed over.

3. Install IFPS13

a. All WFOs –

i. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.

ii. Install the IFPS13.

1. Insert the CD labeled "IFPS13" into the CD drive on ds1
2. Log into a workstation as **root**, then rlogin into the ds
```
>rlogin ds1
```
3. Start two windows. One to run the commands and the other to stop the script files.
4. In the first window, mount the CD drive
For K class server:
```
>mount  /dev/dsk/c3t2d0 /cdrom
```
For D class server:
```
>mount  /dev/dsk/c1t2d0 /cdrom
```
5. In the first window, start the script to log install progress
```
>script  -a  /home/ncfuser/IFPS13install.out
```
6. `>cd /cdrom`
7. In the first window, run "installIFPS13". Remember this command needs to be executed as **root** on the **ds1**. This script needs to run to

completion (i.e., the command line prompt returns). Do not <cntrl>C out of this script unless you are directed to do so by NCF or MDL personnel.

```
>./installIFPS13
```

i. There are a couple of error checks that may appear during the IFPS13 install. These error checks will stop the install until the problem is resolved.
   i. The first check verifies that there is enough space to unload the ifps_ccc database. If there is not enough space, then the install will pause while this area is cleaned up. Once the directory has been cleaned, you will be able to select 'y' to continue with the install.
   ii. The second check verifies that no sessions are connected to the ifps_ccc and wwa_ccc databases. If this check determines that there is a session connected to this database, it will provide you with the necessary information to resolve this issue. Once the sessions have been removed, you will be able to continue with the install by selecting 'y'.

8. When the command line prompt is returned, the install script has finished. At that time, bring up the second window and stop the script command.

```
>ps -ef | grep IFPS13install
>kill <process id>
```

where process id is shown in the 'ps -ef' command

9. Update GFE Intersite Coordination Files

Complete this step, even if you already did this for IFPS12.3

i. Still as root on ds1, obtain the python files Discrepancy_FPValue_FPGrid.UserPython and Show_FPISC_FPGrid.UserPython

```
>cd /awips/adapt/ifps
```

ii. Connect to the NOAA1 server

```
>ftp 165.92.25.15
```

iii. Once connected login = ftp and password = your email address

iv. Get the Discrepancy_FPValue_FPGrid.UserPython and Show_FPISC_FPGrid.UserPython files

```
>cd /pub/ifps12.3patch
>binary
>hash
>get Discrepancy_FPValue_FPGrid.UserPython
>get Show_FPISC_FPGrid.UserPython
>bye
```

v. Connect to lx1 as user ifps

```
>rlogin lx1
>su - ifps
```

vi. Change directory to /awips/GFESuite/data/databases/BASE/TEXT/UserPython

```
>cd /awips/GFESuite/data/databases/BASE/TEXT/UserPython
```

vii. Remove the bad Python files

```
>rm -f Discrepancy_FPValue_FPGrid.UserPython Show_FPISC_FPGrid.UserPython
```

viii. Copy the good Python files from /data/local

```
>cp /awips/adapt/ifps/Discrepancy_FPValue_FPGrid.UserPython .
>cp /awips/adapt/ifps/Show_FPISC_FPGrid.UserPython .
```

ix. Change the permissions on the Python files

```
>chmod 444 Discrepancy_FPValue_FPGrid.UserPython Show_FPISC_FPGrid.UserPython
```

x. Connect to lx2 as user ifps

```
>rlogin lx2
```

xi. Change directory to /awips/GFESuite/data/databases/BASE/TEXT/UserPython:

```
>cd /awips/GFESuite/data/databases/BASE/TEXT/UserPython
```

xii. Remove the bad Python files

```
>rm -f Discrepancy_FPValue_FPGrid.UserPython Show_FPISC_FPGrid.UserPython
```

xiii. Copy the good Python files from /data/local

```
>cp /awips/adapt/ifps/Discrepancy_FPValue_FPGrid.UserPython .
>cp /awips/adapt/ifps/Show_FPISC_FPGrid.UserPython .
```

xiv. Change the permissions on the Python files

```
>chmod 444 Discrepancy_FPValue_FPGrid.UserPython Show_FPISC_FPGrid.UserPython
```

xv. Return to ds1

```
>exit
>exit
>exit
```

xvi. Clean up

```
>rm Discrepancy_FPValue_FPGrid.UserPython Show_FPISC_FPGrid.UserPython
```

10. In the second window, review the IFPS13 install log

```
>cd /home/ncfuser
>more IFPS13install.out
```

Look for any errors in the log file. If you have a questions about anything related to the install process, call the Site Support Team (SST) for assistance. Also take a look at the Lessons Learned section of the IFPS13 web page at:

http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds

Once there, click on "13" in the IFPS13 row of the matrix to view more information about IFPS13.

When the install is completed, please call the NCF and close the trouble ticket you opened to begin this process.

11. Unmount & remove the IFPS13 CD

```
>cd
>umount /cdrom
```

PART 3: Post-Install Instructions for IFPS13

Part 3 represents the steps necessary to verify the IFPS13 install. These steps are not comprehensive but just enough to verify that the basic system functionality is up and running. This part of the install instructions includes a list of items that MDL/FSL recommend to complete immediately after the IFPS13 install. This list is meant to focus the IFPS Focal Point on particular pieces of the software that were changed during the IFPS13 install. Although MDL/FSL attempts to not overwrite the local site configuration of IFPS, sometimes it is not possible. This part of the install instructions should lead the IFPS Focal Point to verify that site configuration is not lost. This section will closely parallel the information listed in Part 0. If the site performed the necessary backups of these data, then the verification and any necessary updates should go smoothly at this time. The last part of this section includes a list of items that will need to be configured, if the site chooses to do so at a later time.

If you are a RAP site, please follow the directions listed under the "RAP Sites (ONLY)" tag. If you are not a RAP site, please follow the instructions under these tags "Non-RAP WFOs". All of the WFOs need to follow the directions under the "All WFOs" tag.

1. **Verify System Functionality**
   a. All WFOs –
      i. Verify that the IFPS servers started correctly

         (1) On lx1 as ifps
            (a) Check for the IFPS Servers (ifpServer, ifpServerWatcher, sliderParameterServer, and sirssrv)
            ```
            >ps -ef | grep ifps
            ```
            (b) If any of the above processes are not listed, then start the server(s)
            ```
            >cd /awips/adapt/ifps/bin/linux
            >./start_LX_ifps_servers ccc
            ```
            where ccc is the 3-letter site identification

      ii. Verify that the IFPS cron files are running
         (1) On ds1 as ifps
            (a) Check for the IFPS cron
            ```
            >crontab -l
            ```
            (b) If the cron is not listed, then start it
            ```
            >cd /awips/adapt/ifps/crontab
            >crontab ifps-ccc.crontab
            ```
            where ccc is the 3-letter site identification
         (2) On lx1 as ifps
            (a) Check for the IFPS cron
            ```
            >crontab -l
            ```
            (b) If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
>crontab ifps_mosingest_crontab.sh
```

(3) On lx2 as ifps

(a) Check for the IFPS cron

```
>crontab -l
```

(b) If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
>crontab ifps_diskmirror.crontab
```

2. **New Functionality that could be Configured within IFPS**

a. All WFOs –

i. Please refer to Section #1 of the IFPS13 Release Notes for more details of new functionality added within IFPS13. The URL is:

http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds

Once there, click on "13" in the IFPS13 row of the matrix, then go to Release Notes and Section 1 ("New Functionality")

3. Export Configuration Data

a. All WFOs –

i. After successfully **installing**, **testing**, and **configuring** IFPS13, it is important that you export your site's configuration data to the NDFD central server. Having your site's latest configuration data available on the NDFD central server will greatly facilitate service backup should your site require it. For more information related to exporting your site's configuration data, please visit the following references in the IFPS13 Users Guide:

http://isl715.nws.noaa.gov/tdl/icwf/user_guide_ifps13/func/svc_backup_func.htm#StartStop

http://isl715.nws.noaa.gov/tdl/icwf/user_guide_ifps13/tech/svc_backup_tech.htm#ConfigDataExp

PART 4: Deinstall Instructions for IFPS13

Part 4 represents the steps necessary to deinstall (if necessary) IFPS13. The deinstall is a radical step and should be considered only as a last resort to get the site back up and running with IFPS. As a result, any deinstall of IFPS13 should be carefully coordinated between the site, regional headquarters, Office of Science and Technology, MDL, FSL, and OCCWS.

NOTE: Any configuration completed since the IFPS13 install will be lost upon completing the deinstall. The system will be returned to the state just prior to the IFPS13 install. All forecast digital data will be lost and will need to be recreated.

If you are a RAP site, please follow the directions listed under the "RAP Sites (ONLY)" tag. If you are not a RAP site, please follow the instructions under these tags "Non-RAP WFOs". All of the WFOs need to follow the directions under the "All WFOs" tag.

1. **Notify the NCF**
   - **a.** All WFOs –
     - i. Before starting the IFPS13 de-install, please open a trouble ticket with the NCF. This will alert MDL that you are about to begin your IFPS de-install. Should you require any assistance with the de-install, a trouble ticket will already be opened.
2. **Restore IFPS to the Previously Installed Version**
   - a. All WFOs –
     - i. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.
     - ii. Deinstall the IFPS13.
       - (1) Insert the CD labeled "IFPS13" into the CD drive on ds1
       - (2) Log into a workstation as root, then rlogin into the ds
         ```
         >rlogin ds1
         ```
       - (3) Start two windows. One to run the commands and the other to stop the script files.
       - (4) In the first window, mount the CD drive
         For K class server:
         ```
         >mount  /dev/dsk/c3t2d0  /cdrom
         ```
         For D class server:
         ```
         >mount /dev/dsk/c1t2d0 /cdrom
         >cd /cdrom
         ```
       - (5) In the first window, start the script to log install progress
         ```
         >script -a /home/ncfuser/IFPS13deinstall.out
         ```
       - (6) In the first window, run the installIFPS13 script with a deinstall option (the script may take a second or two, before it sends information to the terminal screen)
         ```
         >./installIFPS13 -d deinstall
         ```

(7) In the second window, stop install log using these commands
```
>ps -ef | grep IFPS13deinstall
>kill <process id>
```
where process id is shown in the 'ps -ef' command

(8) In the second window, review the deinstall IFPS13 log
```
>cd /home/ncfuser
>more IFPS13deinstall.out
```
Look for any errors in the log file. If you have questions about anything related to the de-install process, call the Site Support Team (SST) for assistance. When the de-install is completed, please call the NCF and close the trouble ticket you opened to begin this process.

Attachment 1: New/Merge/Replace File List for IFPS13

The table below tracks changes in the IFPS data files and database tables associated with the transition from IFPS11.3 or IFPS11.4 to IFPS13.

The following **key** is used in the table.

Merge — Attempt to preserve edited changes to this file/database table while providing any new information needed for IFPS to run in the IFPS13 environment. The IFP focal point should **back these files up** and **confirm that no site changes were lost during the IFPS13.**

Replace/Update — This file/database table must be completely replaced in order for IFPS to run in the IFPS13 environment. The IFP focal point should **back these files up** and **be prepared to merge his/her changes into the file once IFPS13 has been installed.**

Delete — This file/database table was removed during the IFPS13 install.

New — New files/database tables required for IFPS to run in the IFPS13 environment. There is no additional work required. The IFP focal point may have to customize these files after IFPS13 is installed in order for a particular application to work correctly. For IFPS13 details and links to IFPS13 Release Notes and the IFPS13 User's Guide, go to:

http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds

Once there, click on "13" in the IFPS13 row of the matrix.

If a particular file/database table is not mentioned in the report below, assume that no changes are occurring during the IFPS13 install.

File/Database Table	Use Key Above
~ifps/Xdefaults	
Igr_ccc	New
Master	New
Sliderccc	New

File/Database Table	Use Key Above
~ifps/crontab	
No Changes	
~ifps/localbin	
ifps-ccc.env	Merge
~ifps/data	
WWA_files.txt	New
climo	New
config_bm	New
fixit_init.cfg	New
fixit_main.cfg	New
fixit_marine.cfg	New
fixit_selector.cfg	New
georemap_bm	New
ifps_avn.cfg	New
ifps_hpc.cfg	New
ifps_init.cfg	New
ifps_mrf.cfg	New
ifps_ngm.cfg	New
igr_bm	New
master_bm	New
slider	New
template_fwm.ccc	New
ifps_ccc database	
cat_element	Merge
const_descr.unl	Update
dfm_template.unl	Update
map_associations.unl	Update
option_items.unl	Update

File/Database Table	Use Key Above
wwa_ccc database	
No Changes	

The following are some of the scripts in /awips/adapt/ifps/bin/hp and /awips/adapt/ifps/bin/linux that have changed with the IFPS13 install. If the IFP focal point has made any adjustments to these script within /awips/adapt/ifps/localbin, they will need to be **merged.**

- Under /awips/adapt/ifps/bin/hp:
    - capture_off_words
    - ccf_trans
    - dump_tdlfs
    - ifps-main.env
    - run_dump_tdlfs
    - run_ifps
    - tsfp
    - tsfp_alert
- Under /awips/adapt/ifps/bin/linux:
    - Icwf_message
    - MOSInterp
    - add_tables.tcl
    - avg_dfms
    - bpfextract
    - capture_off_words
    - ccf_trans
    - change_cwa
    - chg_cmd
    - choose_host
    - clean_svbkup.bat
    - clean_svbkup.tcl
    - cleanup_svbk
    - cleanup_temp_tables
    - config_cat_element
    - config_cntrl_const
    - config_edit
    - config_forecasters
    - config_fwx_prods

- config_geo
- config_ifps
- config_prodgroup
- config_prodinfo
- config_wildcard
- correct_ifps_permissions
- cpydfms
- createIFPSdatabase
- createIFPSdatabases
- createIFPSdatabasesYesterdate
- createNewDatabase
- create_firewx
- create_marine
- create_temp_tables
- create_tempfwx_tables
- cwfas
- cwfas.bat
- cwfca.bat
- cwfca_marine_no_working.bat
- detnwrchnges
- detupdchnges
- dumpcombos
- dumpdfms
- dumpgrids
- edit_dfsm
- efpc
- eshef
- export_Xdef_for_svcbkup
- export_datadir_for_svcbkup
- export_localbin_for_svcbkup
- frmt
- fwf
- fwm
- fwx_cwfca.bat
- fwxtab
- georemap
- gform
- grid2shefb
- hanging_app.env
- hanging_app.tcl
- hanging_app_warn.tcl
- ics

- ics.bat
- ics_fwx.bat
- ics_marine.bat
- ics_marine_move.bat
- ics_move.bat
- icwf_msg
- ifpServerWatcher
- ifps_config_menu
- ifps_master_menu
- igr
- igr.bat
- import_local_bin_for_svcbkup
- init_cwf_stn_dfms_frm_grd.bat
- init_cwf_zone_dfms_frm_grd.bat
- init_firewx_stn_dfms_frm_grd.bat
- init_firewx_zone_dfms_frm_grd.bat
- init_glf_stn_dfms_frm_grd.bat
- init_glf_zone_dfms_frm_grd.bat
- init_marine_files_and_db
- init_nsh_stn_dfms_frm_grd.bat
- init_nsh_zone_dfms_frm_grd.bat
- init_off_stn_dfms_frm_grd.bat
- init_off_zone_dfms_frm_grd.bat
- init_public_stn_dfms_frm_grd.bat
- init_public_zone_dfms_frm_grd.bat
- initmarine
- iur
- kill_ww.sh
- killer
- killit
- lexwx
- list_cwa_changes
- list_cwa_changes_zone
- lx1.finishes.primary
- lx2_primary.sh
- lx_failover
- make_default_combos
- make_lx1_primary.sh
- make_lx2_primary.sh
- make_lx2_secondary.sh
- maketime
- marine.bat

- marine_cwfca.bat
- mexwx
- mfp
- mk_brt
- mk_new_tables
- mk_new_tables.bat
- modclimo
- mvf
- new_table.sql
- phrstrat
- prepare_grib2
- process_export_svc_backup_data
- process_import_svc_backup_data
- prod_hdr
- qc
- rcmd_remap
- rcmd_remap.bat
- rd_icwf_site
- remove_synopsis_zone_code.bat
- restore_synopsis_zone_code.bat
- retrieve_svc_backup_data
- rmv_old_tables
- run_bpfextract
- run_gform
- run_ifps_lx
- run_lexwx
- saf
- selectMarineProduct.tcl
- select_wfos
- setup_tsfp_for_svcbkup
- sexwx
- show_cwa_changes
- sirssrv
- slider
- sliderParameterSrv
- start_ifpsSvrWtchr
- start_sliderParm_server
- stn_ingest_controller.sh
- streamsaf.bat
- tpinj
- tsfp
- tsfp_alert

- unld_to_zns
- unload_grid_config
- upd_dfms_frm_grd.bat
- upd_marine_dfms_frm_grd.bat
- update_cwa_info
- update_dbdata
- update_gdpt
- update_inherit
- wafd
- wafp
- wccf
- wcwf.bat
- wglf.bat
- wnsh.bat
- woff.bat
- wwa_ifps_backup.bat
- wwainj
- wwarcmd
- zfp

Attachment 2: IFPS13 Install Space

(**NOTE**: If you do not have sufficient install space in any of the partitions listed below, please contact the Site Support Team (SST) at 301-713-9362x325 for assistance in identifying files that may be safely deleted.)

	Host		
Partition	ds1	lx1	lx2
/awips/adapt	**300000**	-	-
/data/adapt	1300000	-	-
/data/local	1300000	-	-
/tmp	40000	-	-
/awips/GFESuite	-	1500000	1500000

The size can be checked on the HP host (ds1) with the following command:

bdf

Example:

```
ds1-nmtw{awipsusr}1: bdf
Filesystem          kbytes    used   avail %used Mounted on
/dev/vg00/lvol3     102400   70225   30183   70% /
/dev/vg00/lvol1      47829   15276   27770   35% /stand
/dev/vg00/lvol7     212992  171655   38831   82% /var
/dev/vg00/lvol6     512000  400254  104975   79% /usr
/dev/vg01/lvol3     151552  112443   36879   75% /usr/local
/dev/vg01/lvol2    1179648  922094  241986   79% /opt
/dev/vg01/lvol4     204800   63607  132419   32% /awips/ops
/dev/vg01/lvol5     563200  385420  166837   70% /awips/fxa
/dev/vg00/lvol5      99669   52325   37377   58% /tmp
```

```
/dev/vg02/lvol1     307200    2031     286935       1%     /awips/dev
/dev/vg02/lvol2     102400   53498     45852       54%     /awips/hprt
/dev/vg02/lvol3     411648  129243    273898       32%     /awips/hydroapps
/dev/vg02/lvol4     890880  508843    358486       59%     /awips/adapt
/dev/vg02/lvol5    5427200 3834490   1511808      72%     /data/fxa
/dev/vg02/lvol6     824320  340664    455677      43%     /data/logs
/dev/vg02/lvol7     307200   19673    273893       7%     /data/x400
/dev/vg02/lvol8     471040  261638    197742      57%     /home
/dev/vg02/lvol9     307200  108867    186001      37%     /omni_shared
/dev/vg02/lvol10    286720  216130     66196      77%     /opt/HP-RT
/dev/vg02/lvol11    409600    1334    382885       0%     /data/archive_cache
/dev/vg02/lvol12    614400    1798    574380       0%     /data/archive_restore
/dev/vg03/lvol1    9216000 2293134   6491159     26%     /data/local
/dev/vg02/lvol14   1228800  748566    455960      62%     /data/fxa_local
/dev/vg03/lvol2    2560000 1105712   1363577     45%     /data/adapt
```

In the above example, the **/tmp** partition has less than 40000 kb available.

-or-

bdf *partition*

Example:

```
ds1-nmtw{awipsusr}2: bdf /awips/adapt
Filesystem          kbytes    used     avail      %used  Mounted on
/dev/vg02/lvol4     890880  508843    358486      59%     /awips/adapt
```

The size can be checked on the Linux hosts (lx1 and lx2) with the following command:

df

Example:

```
lx1-nmtw{awipsusr}1: df
Filesystem           1k-blocks      Used      Available    Use%    Mounted on
/dev/sda7              513880       118196    374804       24%      /
/dev/sda2               23333        13133      8996       60%     /boot
/dev/sda5             5138948      3005224   1924884       61%     /usr
/dev/sda1             2119036         2412   2030520        1%     /local
/dev/sda10            3075029       379827   2536161       14%     /awips/fxa
/dev/sda11            5050844       937481   3851907       20%     /awips/GFESuite
/dev/sda12           11931137       586694  10848679        6%     /data
/dev/sda8              256592       132608    110732       55%     /var
/dev/sda9              256592          463    242877        1%     /tmp
ds-nmtw:/awips/adapt   890880       508840    358488       59%     /awips/adapt
ds-nmtw:/home          471040       261392    197968       57%     /home
ds-nmtw:/data/fxa     5427200      3835216   1511120       72%     /data/fxa
ds-nmtw:/data/fxa_local
                      1228800       752960    451808       63%     /data/fxa_local
```

```
ds-nmtw:/data/local    9216000    2293128    6491160    27%  /data/local
ds-nmtw:/data/adapt    2560000    1105712    1363584    45%  /data/adapt
ds-nmtw:/awips/hydroapps
                        411648     129440     273696    33%  /awips/hydroapps
-or-
df partition
Example:
df /awips/GFESuite
/dev/sda11             5050844     937481    3851907    20%  /awips/GFESuite
```

Attachment 3: Sample IFPS Install Log File

A sample **IFPS13 Installation Log File** is available at the following URL:

- http://www.nws.noaa.gov/mdl/icwf/IFPS13/SampleIFPS13install.log

Customer Support Team (CST) Contact List

- Iris.Boon@noaa.gov
  (301) 713-0224 x 145
- Wee.Jung@noaa.gov
  (301) 713-0056 x 152
- Carl.McCalla@noaa.gov
  (301) 713-1065 x 169
- Edward.Mandel@noaa.gov
  (301) 713-1768 x 153